

Features/Functions

- 5-250 Watts
- Wide input voltage range: 9 V to 60 V
- Output voltage range:
3.3V, 5V, 12V, 15V and 18V
- -55 °C to +105 °C operation
- High efficiency
- Rugged epoxy encapsulated package
- Integral EMI shield
- Six-sided metal packages for maximum EMI shielding
- Fully compatible with aqueous cleaning processes
- Dual-sided thermal conduction
- 2000 V isolation
- Fixed frequency
- Low noise
- Output current limit protection
- Short circuit protection

Compliance

- MIL-STD-1275
- MIL-STD-704A
- MIL-STD-461
- DO-160
- ISO-9001
- DEF-STAN 59-411
- Testing to JESD22, MIL-STD-810, MIL-STD-883
- J-STD-001, ISO-9001, IPC-A-610 Class 3 manufacturing

For more Information or Datasheets, please contact:

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VPT Expands its VXR High-Reliability Line

Dual Output DC-DC Converters Completes the VXR Series Offering



VPT released its dual output VXR Series DC-DC converters to augment its offering of advanced high-reliability COTS products. Optimized for a broad range of programs from military ground vehicles to commercial and military aircraft, the VXR Series products feature wide input voltage ranges and advanced packaging technology for superior operation in harsh environments. The VXR Series now includes both single and dual output offerings from 7 Watts to 100 Watts as well as 2 to 20 Amp EMI filters.

Two Independently Controlled and Isolated Outputs

The VXR Series dual output DC-DC converters feature two independently controlled and isolated outputs which provide zero cross-regulation. Each output can be configured as positive, negative or stacked allowing for a broad range of output voltage configurations. Additionally, the output voltages can be ordered as unmatched pairs as a standard product option providing a vast range of flexibility within an overall power system design. "The proprietary two-stage topology provides incredibly fast transient response time without the use of optoisolators."

The VXR Series features its proprietary V-SHIELD® advanced packaging technology. V-SHIELD® is an integral epoxy encapsulation which incorporates EMI shielding and dual-sided thermal conduction. It is highly resistant to chemical, solvent and salt environments and is fully compatible with high-volume manufacturing processes including wave solder, cleaning solvents, high-pressure sprays and aqueous wash.

VXR Single Output Converter now meets 100V Surge Requirement

An additional update to the VXR Series family is the capability of the single output converters to now meet the 100 Volt surge requirement of MIL-STD-1275 as well as DO-160. The 100 Volt surge operation is achieved without adding external components to the converters.

Max. Output Power (W)	Model Series	Input Voltage (V)	Output Voltage (V)	EMI Filter
7	VXR7-2800S	9-60	Single 3.3, 5, 12, 15	VXRF2-28, VXRF5-28
7	VXR7-2800D	9-60	Dual 3.3, 5, 12, 15	VXRF2-28, VXRF5-28
15	VXR15-2800S	9-60	Single 3.3, 5, 12, 15	VXRF2-28, VXRF5-28
15	VXR15-2800D	9-60	Dual 3.3, 5, 12, 15	VXRF2-28, VXRF5-28
30	VXR30-2800S	9-60	Single 3.3, 5, 7, 12, 15	VXRF5-28, VXRF10-28
30	VXR30-2800D	9-60	Dual 3.3, 5, 7, 12, 15	VXRF5-28, VXRF10-28
100	VXR100-2800S	11-60	Single 3.3, 5, 7, 12, 15, 18	VXRF10-28, VXRF20-28
100	VXR100-2800D	11-60	Dual 3.3, 5, 12, 15	VXRF10-28, VXRF20-28